

Daily Agenda

Learning Targets: I can determine if an event is dependent or independent. I can calculate the probability of dependent and independent events.

Homework

10.2 Day 1 WS

① $\frac{1}{2}, \frac{9}{14}$ ② No, $\frac{11}{15}, \frac{3}{10}$

③ $\frac{8}{23}, \frac{18}{23}, 0$ ④ $\frac{2}{15}$

Assessments

10.1-10.2 Quiz 4/27
Unit 10 A Test - 5/5

Be quick, but don't hurry.
-John Wooden

Nov 15-8:24 PM

Blue

Yellow

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

Apr 24-11:22 AM

➔

PASSWORD RESET

ALL STUDENTS MUST LOGIN TO THE SSD TO RESET THEIR PASSWORD BEGINNING AT 2:45PM ON APRIL 24

SSO: <https://sso.ipsd.org>

PASSWORD RESET PROCESS: <http://bit.do/nvpasswords>

Apr 24-8:09 AM

Review

In the senior class of students, 95 are taking math (M), 73 are taking science (S), and 52 are taking both math and science. One student is picked at random. Find each probability.

- 1) $P(\text{not taking math}) = \frac{52}{147}$
- 2) $P(\text{math but not science}) = \frac{43}{147}$
- 3) $P(\text{math or science or both}) = \frac{116}{147}$

M S

31

Mar 22-3:48 PM

10.2 Probability of Multiple Events

Probability

What is the probability of flipping a coin two times and getting two tails? flipping a coin three times and getting three tails?

H < \ / H

T < \ / T

4

H < \ / H

T < \ / T

8

Feb 9-11:33 AM

10.2 Probability of Multiple Events

Dependent Events
Occurrence of one event affects how second event can occur. (no replacement)

Independent Events
Occurrence of one event **DOES NOT** affect other event. (with replacement)

Feb 9-11:33 AM

Determine whether the outcomes of each trial are dependent or independent events.

Roll a die, then spin a spinner.

Independent

Pick one flash card, then another from a stack of 30 cards.

Dependent

You select a coin at random from your pocket. You replace the coin and select again.

Independent

Two dice are rolled at the same time. Independent

Mar 22-9:13 PM

Determine whether the outcomes of each trial are dependent or independent events.

A student picks a raffle ticket from a box and then picks a second raffle ticket without replacing the first raffle ticket.

A marker is picked at random from a box and then replaced. A second marker is then picked at random.

An Ace is picked from a deck of cards. Without replacing it, a Jack is picked from the deck.

Mar 22-9:13 PM

Multiply to find the probability that two independent or dependent events will **both occur**.

What is the probability of flipping a coin two times and getting two tails? flipping a coin three times and getting three tails?

$$\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4} \qquad \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{8}$$

Apr 24-8:24 AM

Probability of A and B

Independent Events

$$P(A \text{ and } B) = P(A) \cdot P(B)$$

Dependent Events

$$P(A \text{ and } B) = P(A) \cdot P(B \text{ after } A)$$

Mar 22-9:57 PM

Determine if the two events are independent or dependent. Then, calculate the probability.

A deck contains ten cards numbered 1 through 10. If Andrew draws a card, replaces it, then Tyler draws a card, what is the probability that Andrew draws a 4 and Tyler draws a 7?

$$\frac{1}{10} \cdot \frac{1}{10} = \frac{1}{100}$$

Mar 22-8:52 PM